

Pre-Chat



Iowa STEM @IowaSTEM · Aug 10

Don't forget! This month's #IASTEMChat has a new time.

Join us right here tomorrow at noon to discuss re-opening informal STEM education - lessons learned, and learning still.

GREATNESS IN STEM FROM IOWANS | **GOVERNOR'S STEM ADVISORY COUNCIL**
dedicated to building a strong STEM education foundation for all Iowans

Live Twitter Chat - Tuesday, August 11 at Noon

"Re-opening Informal STEM Education - Lessons Learned, and Learning Still"

HOW TO

- In Twitter, follow @IowaSTEM
- Use the reply icon to answer.
- Use A1, A2, A3, A4 in your answer so we know which Q1-4 you are answering.
- Tag all tweets with #IASTEMchat
- Hashtag your grade level and subject #elem #MS #HS

TOPICS

- What is/has been the hardest part about re-opening your program this summer?
- What are some adaptations and modifications you're making to deliver informal STEM education these days?
- How might this period in history actually make your services better in the future?
- What are some ways the STEM Council can support informal STEM through the fall and

2 replies 4 likes



Iowa STEM @IowaSTEM · Aug 11

T-2 hours until our next #IASTEMChat! Meet us right back here at noon to join the conversation.

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1 reply 1 like



Iowa STEM @IowaSTEM · Aug 11

#IASTEMchat will begin in 5 minutes!

1 like

Introductions



Iowa STEM
@IowaSTEM

Welcome to the [#IASTEMchat](#)! Our goal today is to connect STEM educators and communities to each other and to ideas, specifically related to informal learning. Reply to this tweet and introduce yourself and share your role in ed.

12:00 PM · Aug 11, 2020 · [TweetDeck](#)

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4 Likes



SC Iowa STEM Region @SC_Iowa_STEM · Aug 11
Replying to [@IowaSTEM](#)

Hi all! Sarah Derry, STEM Region Manager for South Central Iowa. My role is to support the network of educators and industry as they connect learning to Iowa STEM careers. Looking forward to today's conversation! [#IASTEMchat](#)



1



KariJ @KB_8675309 · Aug 11
Replying to [@IowaSTEM](#)

Hello! Kari Britain, STEM Council Operations Center Program Manager, looking forward to today's conversation.



1



Jeffrey Weld @JdWeld · Aug 11
Replying to [@IowaSTEM](#)

Hi fellow journeyers. Jeff Weld, exec. dir. IA. STEM Council



1



SW Iowa STEM Region @SW_Iowa_STEM · Aug 11
Replying to [@IowaSTEM](#)

Deb Frazee SW STEM Regional Manager



1



Patrick O. Barnes @PatrickOBarnes · Aug 11
Replying to [@IowaSTEM](#)

Pat Barnes, Global [#STEM](#) & Youth Education Program Director [@JohnDeere](#) & [@IowaSTEM](#) Board member [#IASTEMchat](#)



1



Mike Kuennen @MikeSKuennen · Aug 11
Replying to [@IowaSTEM](#)

Mike Kuennen [@IowaBIGNorth](#) #9-12 [#IASTEMchat](#) [#IowaSTEM](#)



1



Danielle Will @DLesso · Aug 11
Replying to [@IowaSTEM](#)

Hello, all. Danielle Will. Community member, library trustee, and engineer in NE Iowa who organizes community STEM programs.



1



Lee County EDG @LeeCountyEDG · Aug 11
Replying to [@IowaSTEM](#)

Dana Millard with [@LeeCountyEDG](#) and the [@STEM_SE_Iowa](#) board. Our goal is to connect students with local [#STEMcareers](#) and the resources to pursue those careers



3



Vic Dreier @PLTWDreier · Aug 11
Replying to [@IowaSTEM](#)

Vic Dreier, Director @ Project Lead The Way, Support teachers and admin with STEM Learning PK-12, wherever learning takes place.



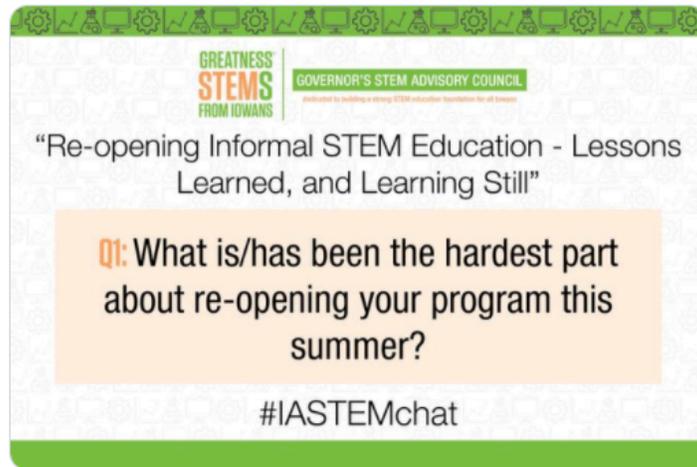
2



Q1: What is/has been the hardest part about re-opening your program this summer?



Q1: What is/has been the hardest part about re-opening your program this summer? #IASTEMchat



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SW Iowa STEM Region @SW_Iowa_STEM · Aug 11

Replying to @IowaSTEM

any programs to comment on NOT shutting down - a transition time before the next school year begins?



Mike Kuennen @MikeSKuennen · Aug 11

Replying to @IowaSTEM

A1: I think students have occupied their time with jobs and meaningful work. I don't think anyone has had this type of break before, so I think returning will be awkward and cumbersome. #IASTEMchat #IowaSTEM



Vic Dreier @PLTWDreier · Aug 11

Replying to @IowaSTEM

A1: I think the most exciting thing we saw was that summer programming was diversified more than ever, and once organizations and schools figured out innovative ways of supporting equity and access, many found that more students than ever were able to participate.

#IASTEMchat



Tanya Hunt @TanyaHu0907 · Aug 11

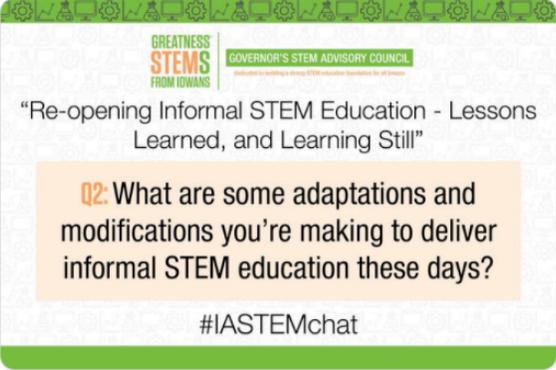
A1 I have heard from library partners that "spreading the word" has been challenging as their outreach for summer programming had typically been done in school. A lot of pivoting had to happen to pull of continued efforts! #IASTEMchat



Q2: What are some adaptations and modifications you're making to deliver informal STEM education these days?

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@IowaSTEM

Q2: What are some adaptations and modifications you're making to deliver informal STEM education these days?
[#IASTEMchat](#)



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 **Patrick O. Barnes** @PatrickOBarnes · Aug 11
Replying to @IowaSTEM
A2: In support of informal & formal STEM education with COVID-19, we are working to increase our employee volunteer support virtually live & with recorded videos. [#IASTEMchat](#)

   6 

 **SW Iowa STEM Region** @SW_Iowa_STEM · Aug 11
Replying to @IowaSTEM
are after-school programs being asked to serve longer hours when schools are virtual - do families ask for extended services for a respite type of brake and socialization times?

 **Patrick O. Barnes** @PatrickOBarnes · Aug 11
Replying to @IowaSTEM
A2: I know @FIRSTweets is doing some innovative work to support virtual events for @firstlegoleague & @FTCTeams including with virtual volunteering & virtual award programs. This includes in Iowa [#IASTEMchat](#) [#Morethanrobots](#)

   5 

 **SC Iowa STEM Region** @SC_Iowa_STEM · Aug 11
Replying to @IowaSTEM
I've seen summer youth programs use a virtual hybrid to bring in experiences that would have normally be field trips by having an outside expert leads an experience/activity via video chat, while a facilitator in the room supports youth with materials. [#IASTEMchat](#)

   4 

 **Vic Dreier** @PLTWDreier · Aug 11
Replying to @IowaSTEM
A2: Remote platforms, E-Camps, Caregiver-Camps, Small Cohorts or Pods, Blended Content, or Flipped Experiences. The biggest shift has been caregivers actively participating more than ever. @PLTWorg we are planning for this to be the case with formal education too. [#IASTEMchat](#)

   6 

 **Mike Kuennen** @MikeSKuennen · Aug 11
Replying to @IowaSTEM
A2: Trying to utilize the current challenges to promote growth mindset and solve real-world problems our businesses and communities are experiencing. Our phones, @Zoom and @SlackHQ have become tools in our everyday activities. Responsible actions are key. [#IASTEMchat](#) [#IowaSTEM](#)

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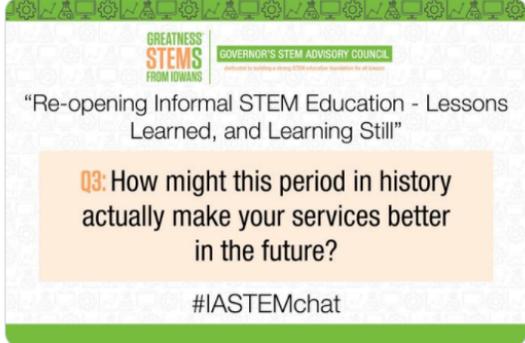
 **Patrick O. Barnes** @PatrickOBarnes · Aug 11
A2: Great point! The current real life situation with COVID-19 provides a real world example that demonstrates the need to be creative, innovative and solve real problems with technology coming to the forefront. [#IASTEMchat](#)

   7 

Q3: How might this period in history actually make your services better in the future?

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@IowaSTEM

Q3: How might this period in history actually make your services better in the future? #IASTEMchat



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 **Patrick O. Barnes** @PatrickOBarnes · Aug 11
Replying to @IowaSTEM
A3: With virtual/remote participation, it opens the door to engage a much larger group of participates such as for guest speakers. #IASTEMchat

   4 

 **Patrick O. Barnes** @PatrickOBarnes · Aug 11
Replying to @IowaSTEM
A3: Provides an opportunity to engage a new set of volunteers supporting STEM leveraging virtual with no travel and potentially reach & scale to more students/educators. #IASTEMchat

 1   4 



SC Iowa STEM Region @SC_Iowa_STEM · Aug 11

Agreed, Pat. Virtual options lower a barrier to participation for some volunteers. The flip side of that, is finding ways to ensure access for all youth (including those without convenient internet access).

1 comment 1 retweet 1 like 1 share



Patrick O. Barnes @PatrickOBarnes · Aug 11

Yes, a big challenge with the "Digital Divide" which COVID-19 has put a spotlight on. #IASTEMchat

2 likes 1 share



Mike Kuennen @MikeSKuennen · Aug 11

Replying to @IowaSTEM

A3: Our goal @IowaBIGNorth is for students to lead with creativity, ingenuity, innovation & fearlessness. We promote failing forward & grit becomes a byproduct of their efforts. Ss sharing their experiences with other Ss is awesome! #IASTEMchat #IowaSTEM

4 likes 1 share



Danielle Will @DLesso · Aug 11

Replying to @IowaSTEM

A3: we've made more connections and have had engagement from more participants, experts, and volunteers that should help diversify our programming and make it more compelling going forward. We've been able to experiment with lower risks on types of programming.

3 likes 1 share



Vic Dreier @PLTWDreier · Aug 11

Replying to @IowaSTEM

A3: Caregiver Professional Development, Educator Professional Development delivery, remote hands-on experiences, whole student focus, and integration of content like never done before. Individualized instruction and feedback for students that will support engagement.

3 likes 1 share



Vic Dreier @PLTWDreier · Aug 11

Replying to @IowaSTEM

Just like we teach our students, "the best learning comes from challenges," the learning and enhancements are too numerous to tweet. Our children will be supported and learn like no other generation before them. It will take us all working together. #IASTEMchat

6 likes 1 share



Tanya Hunt
@TanyaHu0907

A3: Allowing student and educators an opportunity to become more "savvy" in a virtual world assists in creating and/or expanding connections and partnerships to business and industry. #STEMBEST #IASTEMchat

12:42 PM · Aug 11, 2020 · Twitter Web App

5 Likes

1 comment 1 retweet 1 like 1 share



Patrick O. Barnes @PatrickOBarnes · Aug 11

Replying to @TanyaHu0907

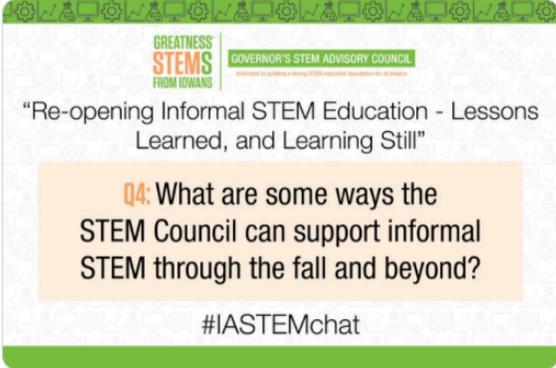
A3: Yes, with "savvy" in a virtual world becoming a critical skill to master in our global, virtual world. #IASTEMchat

4 likes 1 share

Q4: What are some ways the STEM Council can support informal STEM through the fall and beyond?

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@IowaSTEM

Q4: What are some ways the STEM Council can support informal STEM through the fall and beyond?
[#IASTEMchat](#)



"Re-opening Informal STEM Education - Lessons Learned, and Learning Still"

Q4: What are some ways the STEM Council can support informal STEM through the fall and beyond?

[#IASTEMchat](#)

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 **Patrick O. Barnes** @PatrickOBarnes · Aug 11
Replying to @IowaSTEM
A4: Capturing & sharing best practices including with [#STEM](#) Camps moved from in person to virtual [#IASTEMchat](#)

   5 

 **Patrick O. Barnes** @PatrickOBarnes · Aug 11
Replying to @IowaSTEM
A4: Being an advocate and partnering with other organizations to raise the awareness and help address the Digital Divide (access to high speed internet and a computer) in Iowa. [#IASTEMchat](#)

   3 

 **Mike Kuennen** @MikeSKuennen · Aug 11
Replying to @IowaSTEM
A4: Networking opportunities for business partners and staff to "compare notes" is very helpful. Very fortunate to have the leadership and support we do from @IowaSTEM team!! Please keep up the great work!! [#IASTEMchat](#) [#IowaSTEM](#)

   4 

Conclusion



Iowa STEM
@IowaSTEM



Educators, feel free to join our Educator Facebook Group to continue the conversation.

facebook.com/groups/lowaSTEMchat #IASTEMchat



Facebook Groups
Iowa STEM Educators has 127 members. This group was created by the Iowa Governor's STEM Advisory Council for ...
[facebook.com](#)

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Patrick O. Barnes @PatrickOBarnes · Aug 11



Replying to @IowaSTEM

Thanks for hosting the session & the opportunity to participate!
[#IASTEMchat](#)



Iowa STEM
@IowaSTEM



Thank you for joining us today! We will continue hosting a monthly Twitter chat on the second Tuesday of every month. The next chat will be held on September 8. We look forward to chatting again!

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